

# CELENA<sup>®</sup>X LED Filter Cube Selection Guide



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Cat #	LED Filter Cube	Fluorochrome	Peak excitation (nm)	Peak emission (nm)	Compatibility
I10130	DAPI	Alexa Fluor 405	401	422	Empirical
I10130	DAPI	AMC (7-amino-4-methylcoumarin)	351	430	Empirical
I10130	DAPI	DyLight 405	399	433	Empirical
I10130	DAPI	DyLight 350	352	435	Empirical
I10130	DAPI	Calcein Blue	373	440	Empirical
I10130	DAPI	Alexa Fluor 350™	346	442	Empirical
I10130	DAPI	EBFP2	385	448	Empirical
I10130	DAPI	DiFMU (pH 9.0)	357	450	Empirical
I10130	DAPI	Hoechst 33258	352	461	Empirical
I10130	DAPI	DAPI	359	461	Empirical
I10130	DAPI	Coumarin	384	470	Empirical
I10130	DAPI	Atto 390	390	479	Empirical
I10130	DAPI	Hoechst 33342	347	483	Empirical
I10131	EGFP	DIO	484	502	Empirical
I10131	EGFP	ZsGreen1	493	505	Empirical
I10131	EGFP	Cy2™	489	506	Empirical
I10131	EGFP	Atto 465	453	507	Empirical
I10131	EGFP	EGFP	488	507	Empirical
I10131	EGFP	YOYO-1	491	509	Empirical
I10131	EGFP	Emerald GFP	489	510	Empirical
I10131	EGFP	Rhodamine Green	497	523	Empirical
I10131	EGFP	Acridine Orange + DNA	500	526	Empirical
I10131	EGFP	Alexa Fluor 430	432	540	Empirical
I10131	EGFP	DAF-FM	493	540	Empirical
I10132	RFP	mOrange2	548	562	Empirical
I10132	RFP	Alexa Fluor 555™	553	568	Empirical
I10132	RFP	BODIPY TMR	544	569	Empirical
I10132	RFP	Dil	551	569	Empirical
I10132	RFP	DyLight 549	554	569	Empirical
I10132	RFP	SYTOX Orange	548	570	Empirical
I10132	RFP	Cy3™	552	570	Empirical
I10132	RFP	Alexa Fluor 546™	556	573	Empirical
I10132	RFP	Atto 550	554	576	Empirical
I10132	RFP	R-phycoerythrin	565	578	Empirical

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I10132	RFP	TAMRA	555	580	Empirical
I10132	RFP	Tetramethylrhodamine isothiocyanate (TRITC)	555	580	Empirical
I10132	RFP	RFP (TagRFP)	548	581	Empirical
I10132	RFP	DsRed	557	584	Empirical
I10132	RFP	alamarBlue	570	584	Empirical
I10132	RFP	Rhodamine Red	570	590	Empirical
I10132	RFP	Ethidium Bromide (EtBR)	520	603	Empirical
I10132	RFP	mRFP1	584	607	Empirical
I10133	mCherry	Cy3.5™	581	598	Empirical
I10133	mCherry	Alexa Fluor 568™	578	603	Empirical
I10133	mCherry	Sulforhodamine 101	586	605	Empirical
I10133	mCherry	mRFP1	584	607	Empirical
I10133	mCherry	mCherry	587	610	Empirical
I10133	mCherry	Texas Red	592	615	Empirical
I10133	mCherry	DyLight 594	592	616	Empirical
I10133	mCherry	Alexa Fluor 594™	590	617	Empirical
I10133	mCherry	Alexa Fluor 610	610	629	Empirical
I10133	mCherry	mKate2	589	634	Empirical
I10133	mCherry	7-AAD (7-aminoactinomycin D)	549	644	Empirical
I10133	mCherry	mPlum	589	648	Empirical
I10133	mCherry	TurboFP650	592	650	Empirical
I10134	ECFP	CFP	433	475	Empirical
I10134	ECFP	ECFP	434	477	Empirical
I10134	ECFP	SYTO 45	452	484	Empirical
I10134	ECFP	Atto 425	436	485	Empirical
I10134	ECFP	AmCyan	458	489	Empirical
I10134	ECFP	Atto 465	453	507	Empirical
I10135	EYFP	BODIPY FL (pH 7.2)	505	512	Empirical
I10135	EYFP	Oregon Green™ 488	490	514	Empirical
I10135	EYFP	DyLight 488	492	517	Empirical
I10135	EYFP	Calcein	494	517	Empirical
I10135	EYFP	FAM (5-FAM; carboxyfluorescein)	492	518	Empirical
I10135	EYFP	Alexa Fluor 488™	498	520	Empirical
I10135	EYFP	SYBR® Green I	498	522	Empirical

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Cat #	LED Filter Cube	Fluorochrome	Peak excitation (nm)	Peak emission (nm)	Compatibility
I10135	EYFP	PicoGreen	502	522	Empirical
I10135	EYFP	Rhodamine Green	497	523	Empirical
I10135	EYFP	SYTOX Green	504	523	Empirical
I10135	EYFP	SYBR Safe	507	524	Empirical
I10135	EYFP	FITC	490	525	Empirical
I10135	EYFP	Atto 488	501	525	Empirical
I10135	EYFP	SYTO 11	506	525	Empirical
I10135	EYFP	Acridine Orange + DNA	500	526	Empirical
I10135	EYFP	Fluo-3	505	526	Empirical
I10135	EYFP	Oregon Green™ 514	506	526	Empirical
I10135	EYFP	SYTO RNASelect	503	527	Empirical
I10135	EYFP	EYFP (pH 7)	514	527	Empirical
I10135	EYFP	Rhodamine 123	507	529	Empirical
I10135	EYFP	YFP	512	529	Empirical
I10135	EYFP	Citrine	514	529	Empirical
I10135	EYFP	Topaz	514	529	Empirical
I10135	EYFP	Calcium Green™-1	506	531	Empirical
I10135	EYFP	TOTO-1	513	531	Empirical
I10135	EYFP	SYBR Gold	495	533	Empirical
I10135	EYFP	Alexa Fluor 514™	517	539	Empirical
I10135	EYFP	ZsYellow	529	539	Empirical
I10135	EYFP	Alexa Fluor 532™	531	554	Empirical
I10135	EYFP	Rhodamine 6G	525	555	Empirical
I10136	DSRed	RFP (TagRFP)	548	581	Empirical
I10136	DSRed	DsRed	557	584	Empirical
I10136	DSRed	alamarBlue	570	584	Empirical
I10136	DSRed	Ethidium homodimer-1/DNA	527	617	Empirical
I10136	DSRed	Propidium Iodide (PI)	536	617	Empirical
I10136	DSRed	7-AAD (7-aminoactinomycin D)	549	644	Empirical
I10137	Cy5	SYTOX Red	640	658	Empirical
I10137	Cy5	TOTO-3	642	661	Empirical
I10137	Cy5	BODIPY 650/665	647	665	Empirical
I10137	Cy5	DiD	645	670	Empirical
I10137	Cy5	Cy5™	649	670	Empirical

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Cat #	LED Filter Cube	Fluorochrome	Peak excitation (nm)	Peak emission (nm)	Compatibility
I10137	Cy5	SYTO-60	649	681	Empirical
I10137	Cy5	SYTO-62	650	681	Empirical
I10137	Cy5	Alexa Fluor 660 antibody conjugate	663	691	Empirical
I10138	Cy7	Cy7 <sup>™</sup>	743	767	Empirical
I10138	Cy7	DyLight 750	751	772	Empirical
I10138	Cy7	Alexa Fluor 750 <sup>™</sup>	752	779	Empirical
I10138	Cy7	DiR	748	780	Empirical
I10139	Cy3/TRITC longpass	R-phycoerythrin	565	578	Empirical
I10140	GFP long pass	SYTO 9	482	500	Empirical
I10140	GFP long pass	DiA	456	591	Empirical
I10140	GFP long pass	FM <sup>™</sup> 1-43	479	598	Empirical
I10141	Cy5 long pass	mRaspberry	598	625	Empirical
I10141	Cy5 long pass	YOYO-3	612	631	Empirical
I10141	Cy5 long pass	SYTO-17	619	638	Empirical
I10141	Cy5 long pass	SYTO 59	622	645	Empirical
I10141	Cy5 long pass	DyLight 633	623	645	Empirical
I10141	Cy5 long pass	Alexa Fluor 633 <sup>™</sup>	632	647	Empirical
I10141	Cy5 long pass	SYTO 61	619	649	Empirical
I10141	Cy5 long pass	Atto 633	630	657	Empirical
I10141	Cy5 long pass	SYTOX Red	640	658	Empirical
I10141	Cy5 long pass	Nile Blue	631	660	Empirical
I10141	Cy5 long pass	TOTO-3	642	661	Empirical
I10141	Cy5 long pass	Alexa Fluor 647 <sup>™</sup>	649	666	Empirical
I10141	Cy5 long pass	DyLight 649	652	667	Empirical
I10141	Cy5 long pass	Atto 647N	644	669	Empirical
I10141	Cy5 long pass	Cy5 <sup>™</sup>	649	670	Empirical
I10141	Cy5 long pass	Draq5	647	683	Empirical